

Amendments to the Specification

Please replace paragraph [0010] with the paragraph below:

[0010] The heart of the invention is the rake head, which extends across the entire forward end of the harvester. The rake head comprises a rake-head shaft with flanges mounted at each end. A plurality of rakes or combs are mounted on the flanges and extend parallel to the rake-head shaft, evenly spaced on the flanges, equidistant from the rake-head shaft. Thus, as the rake head rotates, each individual rake travels through a circular path defined by its distance from the rake-head shaft. Each individual rake includes a rake bar that contains a row of teeth. Each rake is rotatably mounted on the rake head and the rotation of the rake is controlled so that it maintains a particular orientation throughout a complete rotation of the rake head. In the harvester according to the present invention, the orientation is a sloping downward angle, relative to the vertical, to facilitate discharge of the berries from the rake. As the harvester travels forward, the rotation direction of the forward edge of the rake head is in the direction of travel and the rake at the forward edge is travelling through a downward arc around the forward edge of the rake head. As the rake head rotates, it brings that rake down into the blueberry bush from above and draws it through the bush, from the forward side of the bush, relative to the direction of travel of the harvester, to the rearward side, collecting raked berries on the rake. As the rake head continues to rotate, that rake reverses its direction of travel, now traveling through an upward arc. The raked berries that are collected on the rake are then flung from the rake onto the conveyor, which transports them upward and drops them into a berry collection box. Ideally, the diameter of the rake head is large enough so that the individual rake, as it rotates through the highest point in the rotation cycle, comes down toward the bush and enters at the top of the bush.

Please replace paragraph [0025] with the paragraph below:

[0025] FIG. 2 is a perspective view of the rake head 20 ready for assembly onto the harvester 100. The rake head 20 is bounded at each end by a head flange 28. Extending between the two head flanges 28 are a center head shaft 30 and, in the embodiment shown, four rakes 22, each rake 22 constructed of a rake bar 24 having a plurality of rake teeth 26. Depending on the ideal speed with which the harvester 100 is setup to run, any number of rakes 22, including one rake 22, may be assembled on the rake head 20 for most efficient operation of the harvester 100. ~~[We may want to expound more on this.]~~

Please replace paragraph [0031] with the paragraph below:

[0031] When the motor M is turned on, the central drive shaft 64 rotates at a constant speed. ~~[Is this true? How is speed of the central drive shaft adjusted, for example, if the harvester is to increase or decrease speed?]~~ Tightening one or both of the pulley belts 52C, 54C causes the corresponding transfer pulleys 52B, 54B to rotate. Each of the two driver pulleys 52A, 54A is drivable, independent of the other. Thus, it is possible to engage the first belt-and-pulley assembly 52, i.e., to operate the rake head 20 and the conveyor 40, while leaving the second belt-and-pulley assembly 54 that engages the ground-travel drive wheels 4 disengaged. The opposite is also the case. It is possible to engage the ground-travel drive wheels 4, so as to maneuver the harvester 100 across the ground surface, while leaving the rake head 20 and conveyor 40 disengaged.